



MISSOURI BOTANICAL GARDEN

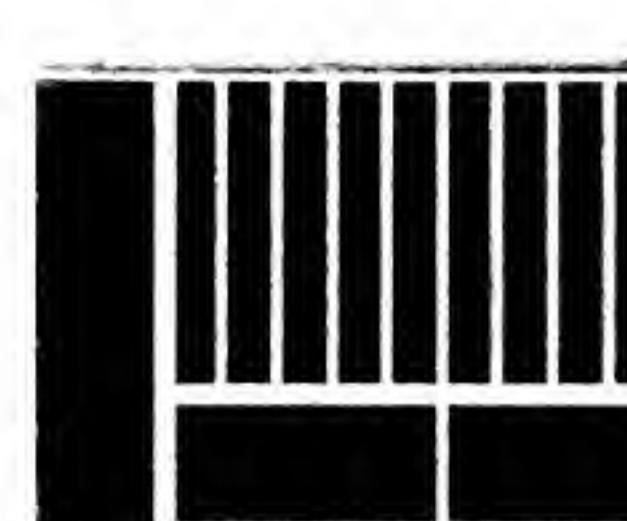
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GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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83 109
Gentianaceae



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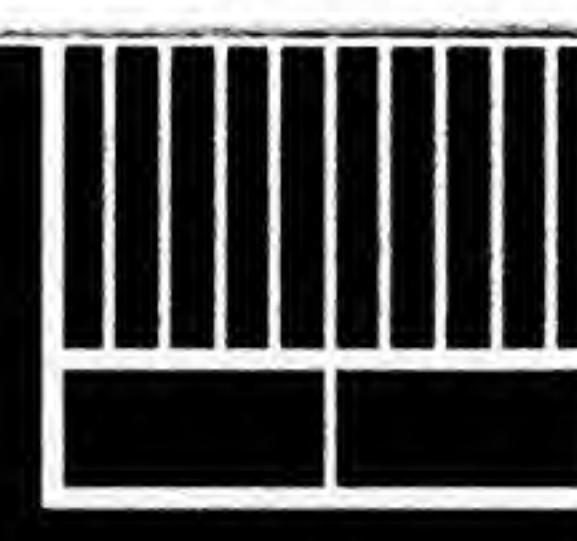
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MISSOURI
BOTANICAL
GARDEN

3866

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10
cm

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MISSOURI
BOTANICAL
GARDEN

1868

Seneca Fox 89.64

Gentianacee *Gentiana sp. sp. micro*

Erythrea *Microale Sabatii* Easton

Gentianacee *Gentiana sp. sp. micro*

Gentian



0 1 2 3 4 5 6 7 8 9 10

cm

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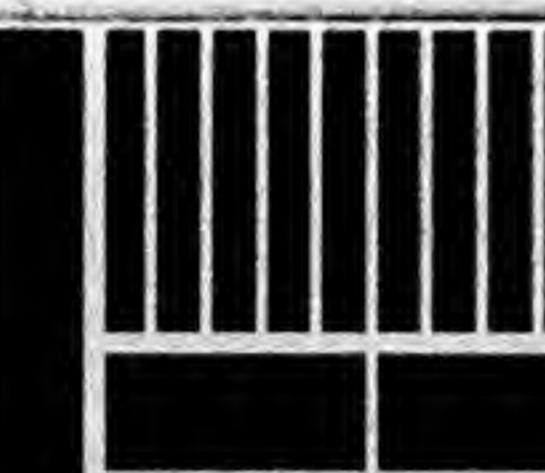
3867

MISSOURI BOTANICAL GARDEN

and often, especially in young plants, almost terete thick &
thus approaching to O. fragilis: Seeds 3 lines wide.

++ ~~§§. Joints and fruit pubescent, without sp~~

6. O. basilaris, Engelm. Bdg. Low, with obovate, often
retuse or fanshaped joints, branching only from the base
areolate very close, densely covered with short brown brist
: flowers large, rose-purple; fruit subglobose, with a
umbilicus, and rather few large and thick seeds. -



0 1 2 3 4 5 6 7 8 9 10
cm

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GARDEN

Gentianaceae 9CIX. 38

I. Gentianace p. 28

1. Chionodoxa p. 28

gen 1 - 7

2. Chloroxanthus

gen 8 - 25

3. Linanthus p. 70

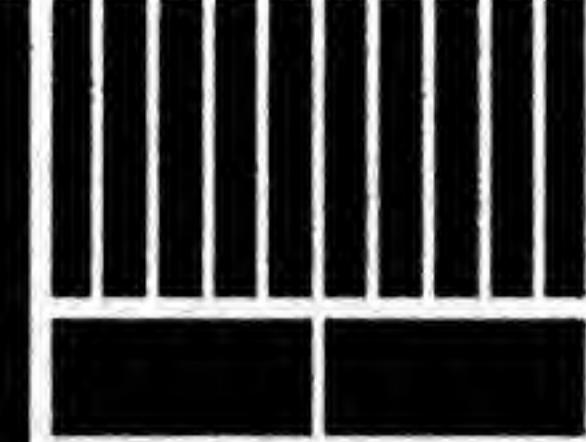
gen 29 - 40

4. Swertia p. 86

gen 41 - 53

II. Menyanthace p. 126

gen 54 - 57



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cm

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3868

Solertia aurantiaca

at f. small ? p. 95

a

g.

6

98

91

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peu tenella p. 98



0 1 2 3 4 5 6 7 8 9 10
cm

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GARDEN

evation "garden" of juvenile offenders than all the penitentiaries in the United States combined, during the same period of time. It is located upon a farm of 1,170 acres, six miles south of Lancaster. From a recent report of the commissioners having the management of it, I make the following extract:

"Fruit-growing, gardening, and the raising of nursery trees, if not always remunerative pecuniarily, has been found very profitable employment for the elevation of wayward boys. Shop-labor is carried on sufficiently to manufacture the shoes and clothing for the institution. The buildings include one main building, eight family buildings, a chapel, four shop-buildings, etc. The first ten boys were received into the institution from the Cincinnati House of Refuge, January 30th, 1858. Since that date, 1,623 boys have been received; of which number 364 now remain.

"The boys are classed in families, and are cared for by officers called Elder Brothers. Each family contains 50 boys. No high fences, walls, bolts or bars are used to restrain the boys, or to prevent them from escaping. By kind treatment and judicious management, at least three-fourths of the boys, at all times, can be trusted to go to any part of the farm, or even to town on business, without supervision, and without any danger of escaping."

From the report of the superintendent of the school for 1872, I make the following extract:

4-7



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MISSOURI
BOTANICAL
GARDEN

od c
insurance and crime, and made a man? Why
zen? I would rather see this General Assembly make use such res-
cue than provide simply for the punishment of a thousand guilty of-
fenders. I appeal to your manhood—to your love of our race—not to
turn a deaf ear to the cry of the unfortunate for help. Go to the er-
ring boy with a panacea for his corruption—light to drive away the
darkness from his mental and moral nature—not with a scourge, to
drive him into desperation, and make of him a fiend instead of a man.
Prepare for him such a refuge and home as I entreat you to do, and he
will bless you, and Heaven and all good men approve. Fail to do it,
and allow him to come to the Penitentiary in consequence of a first
offense, committed, perhaps, under the influences of others, and the
excitement of the moment, and you have sealed his fate for time and
eternity.

30/60/60
GEORGE ENGLEMAN
STRUCTURAL BOTANICAL
INDUSTRIAL SCHOOL

No industrial school exists in Missouri. Thousands of her sons
and daughters are growing up without that education of head, heart,
or hands, essential to their respectability and success in life. Indus-
trial schools are attracting great attention in some portions of Europe,
and are beginning to engage the attention of the legislatures of sev-

6982



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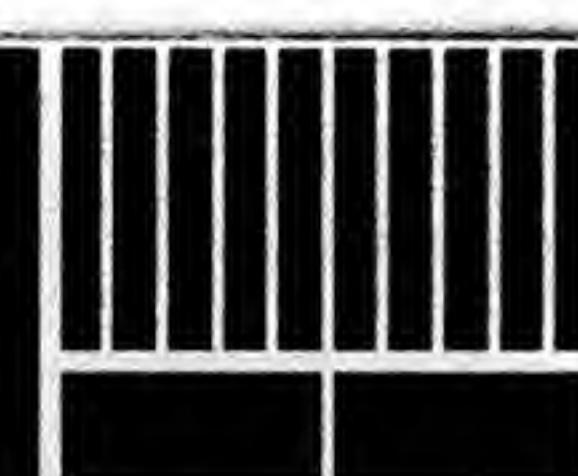
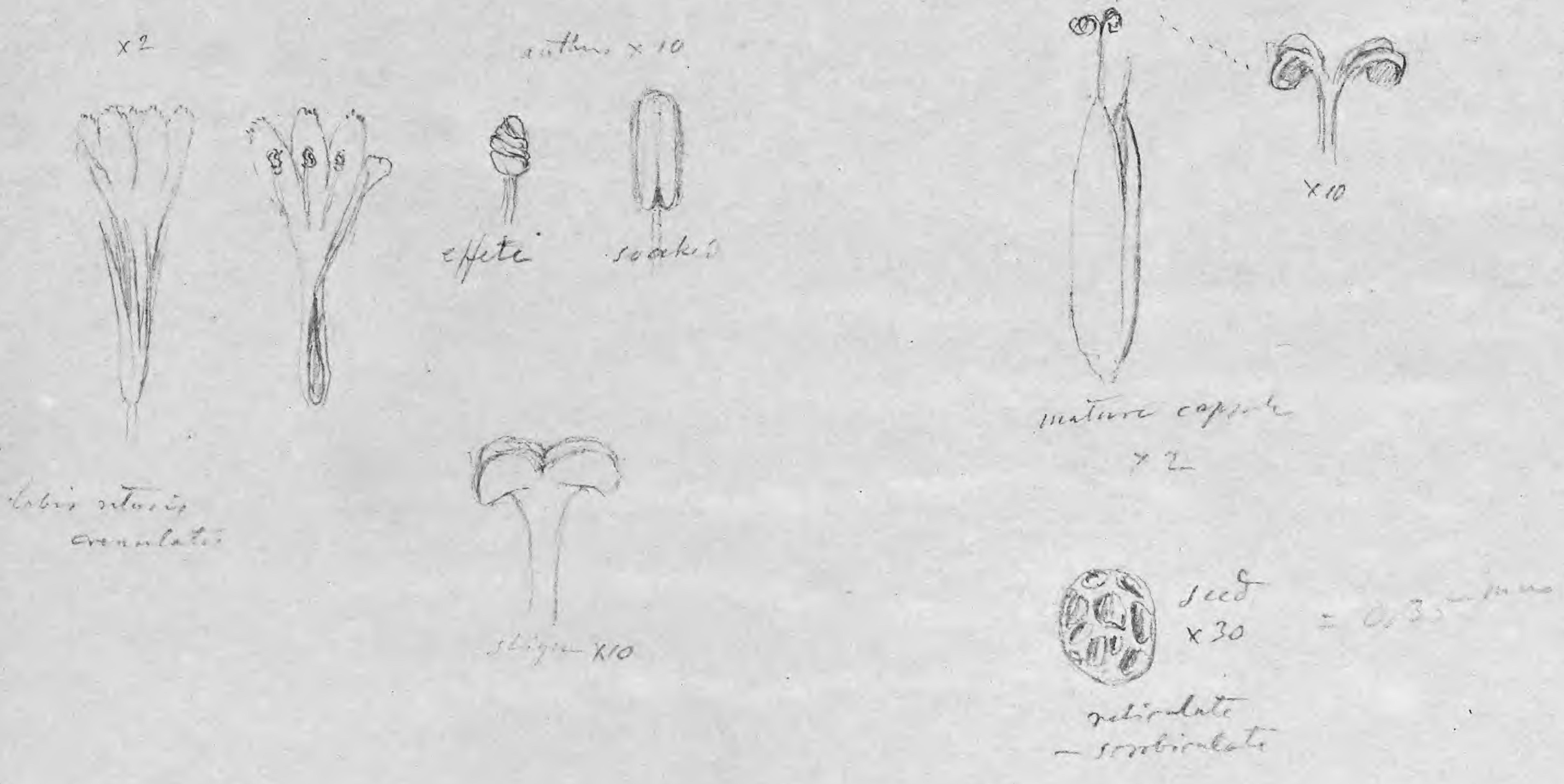
MISSOURI
BOTANICAL
GARDEN

3

say three

Nov 13 1874

6 October 123. Brandon June 1865



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cm

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MISSOURI
BOTANICAL
GARDEN

HENRY EHREHARDT,
PHARMACEUTICAL CHEMIST,
No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

187

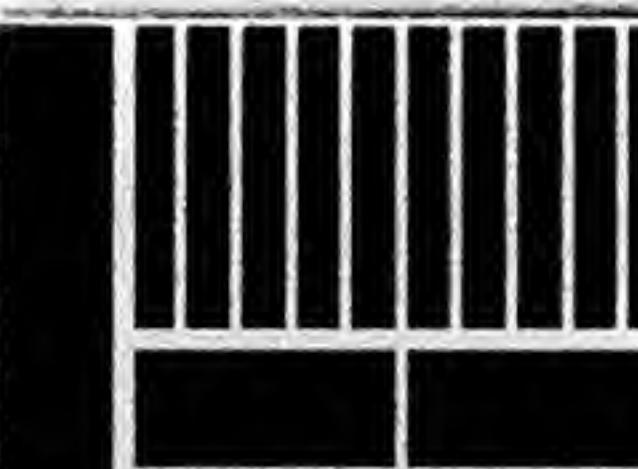
Date

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Or

3870

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



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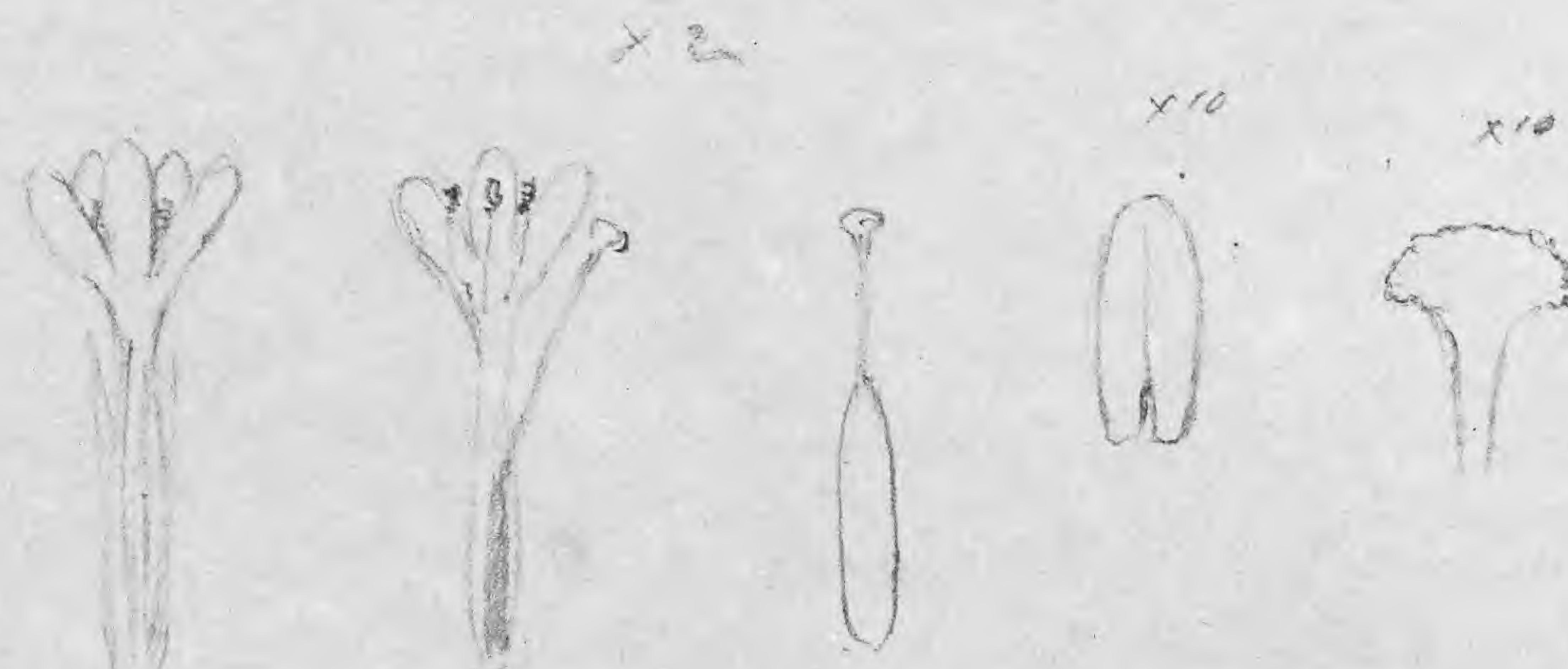
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MISSOURI
BOTANICAL
GARDEN

By Thomas Nuttall
C. L. Greene 178 May 8 1874 broad-leaved form

Nov 13 1874



sessile flower



seeds reticulate



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

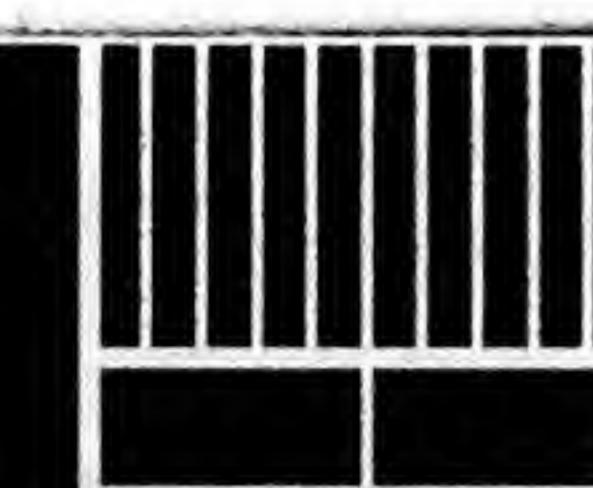
HENRY EHREHARDT,
PHARMACEUTICAL CHEMIST,
No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

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Date

No.

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3871

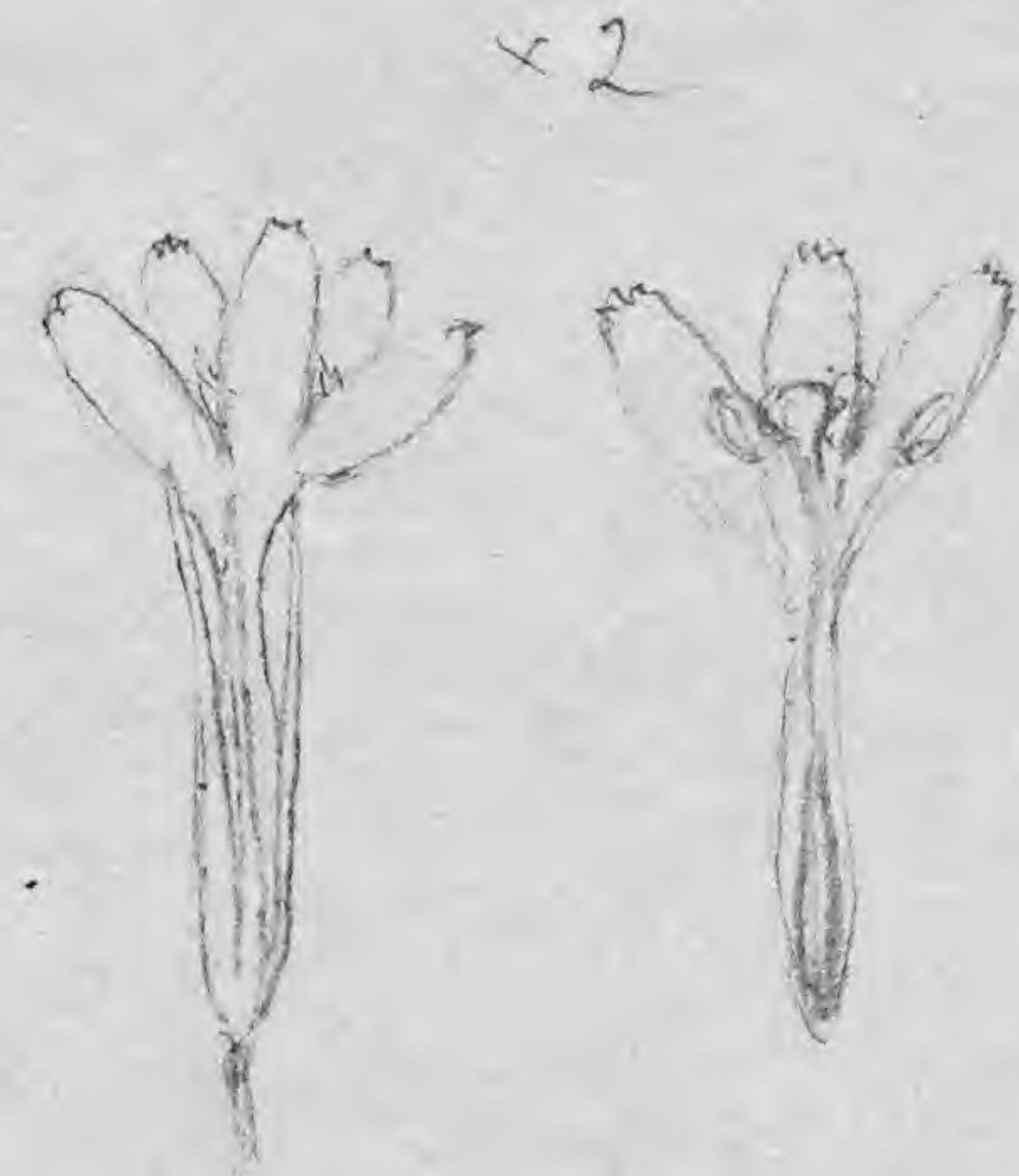
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



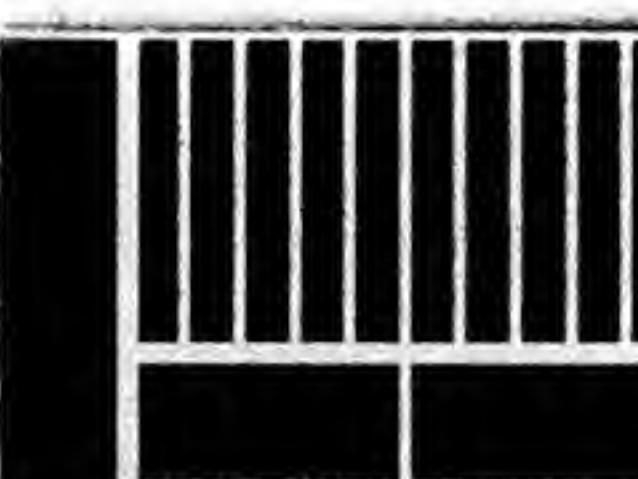
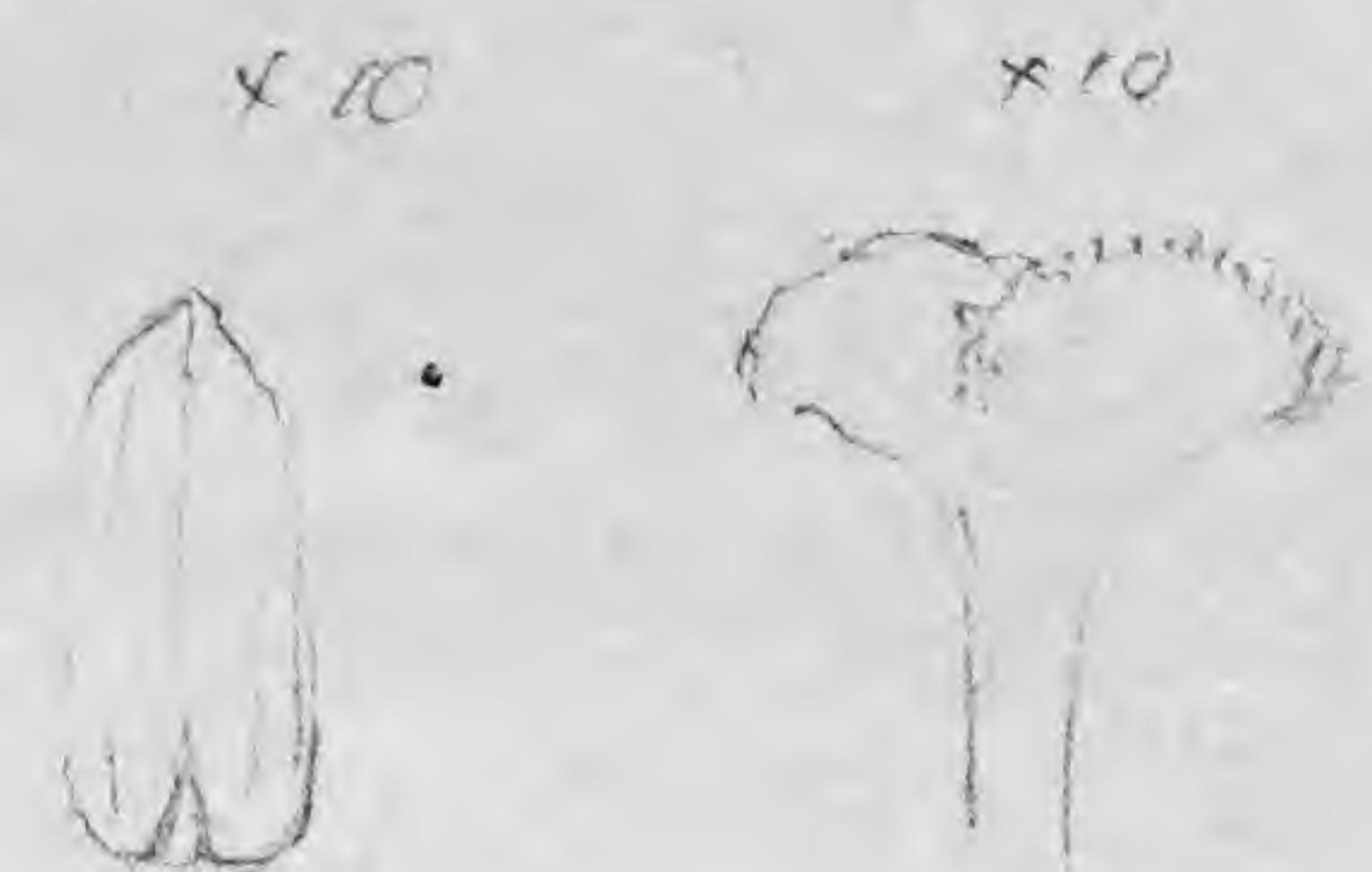
MISSOURI
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GARDEN

13

6 *Erythraea Nuttallii*, Watson var. *canella* Nov 15 1874
Oregon, E. Hall No 425



Style longer than tube
in other species shorter!



0 1 2 3 4 5 6 7 8 9 10
cm

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GARDEN

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PHARMACEUTICAL CHEMIST,
No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

No.

Dr

Date

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MISSOURI BOTANICAL GARDEN
GEORG ENGELMANN PAPERS

3872



0
cm

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GARDEN

12

⑥ *Erythrina Nudiflora* Wilson

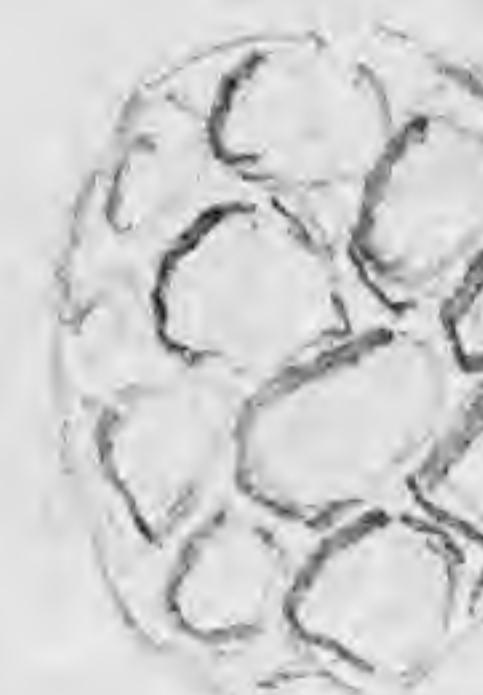
Nov 15 1874

Oregon, E Hall v. 624 *typ. pris.*

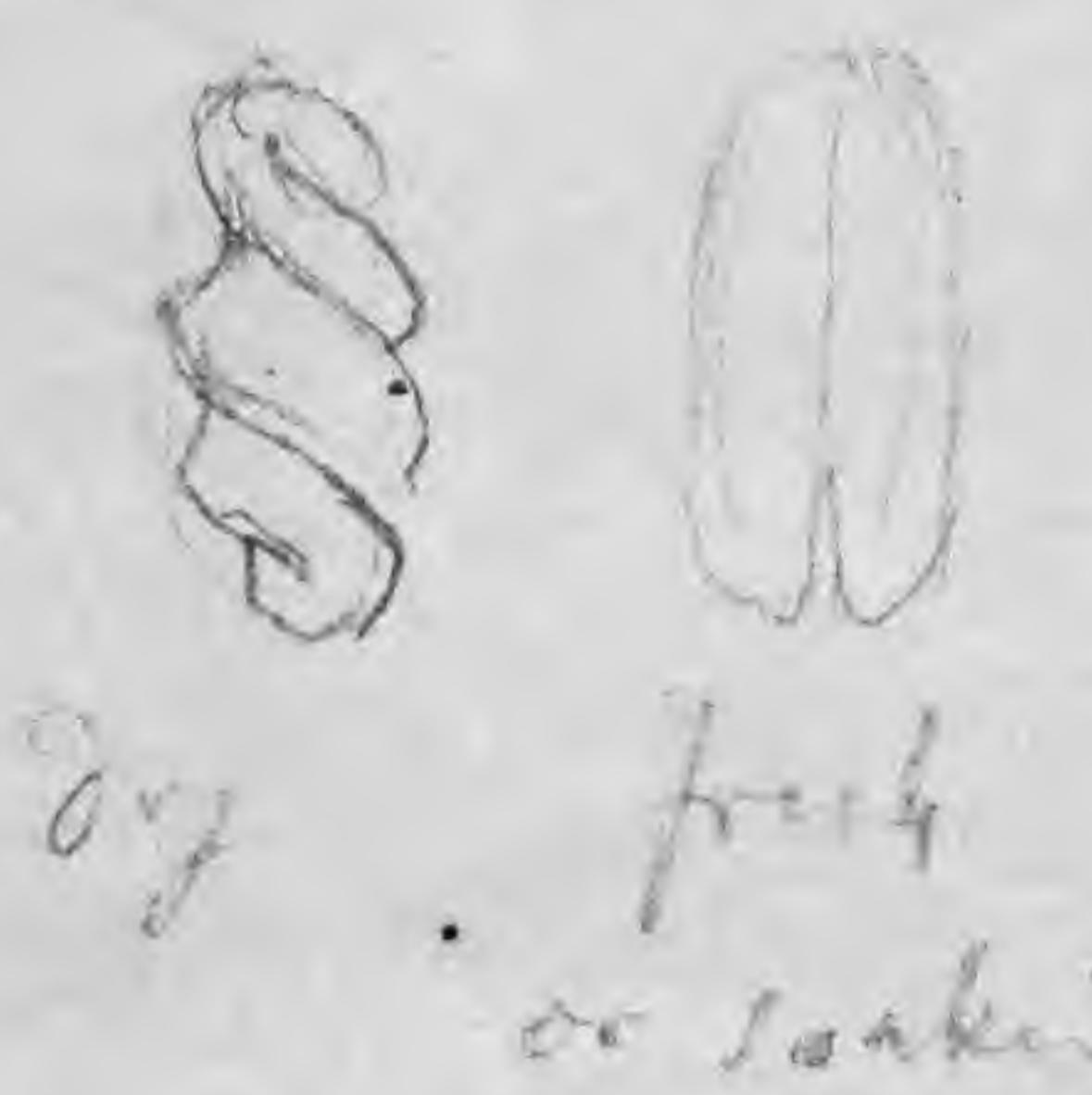
x 10



x 10

Capsule long exserta
x 2mature seed
x 30

0.4 mm

dry, fresh
or soakedhalf
capsule
suture inflatis
semi-bilobatus0
cm

1

2

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6

7

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Date

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Ph

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

3873



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cm

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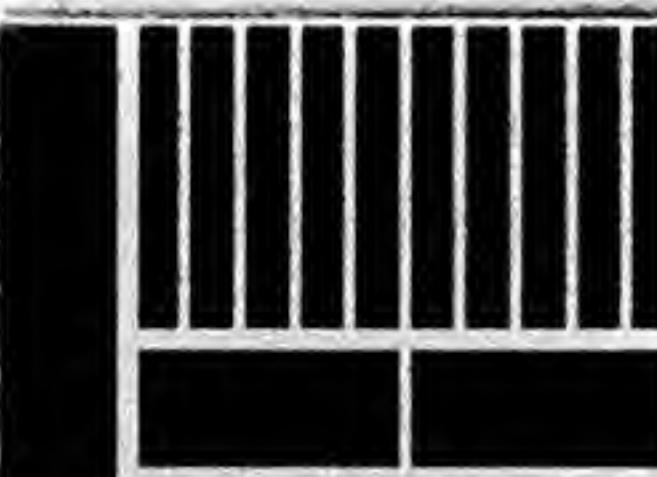
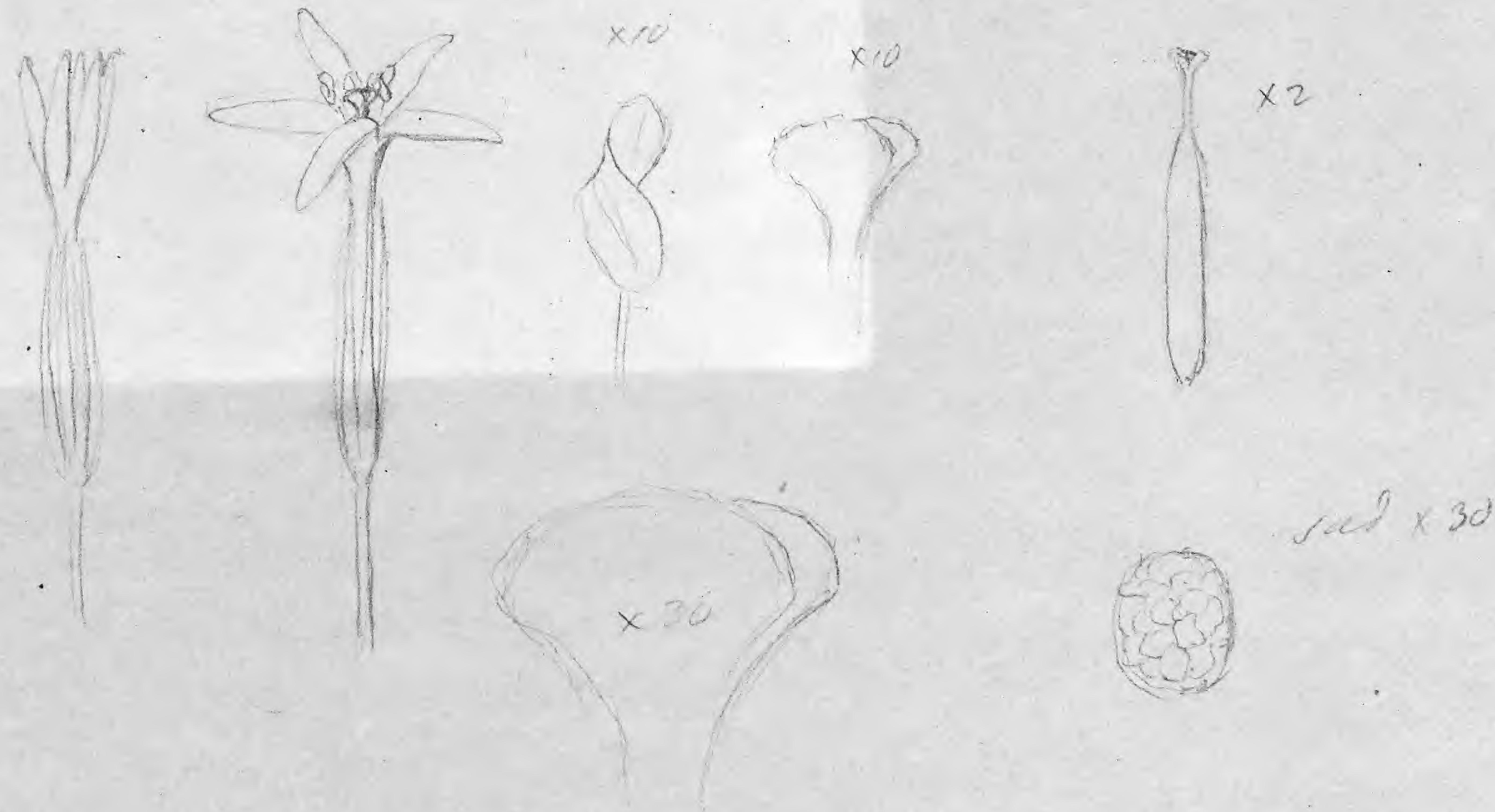
10

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~~Douglasia~~
Erythranthe tricalyx B. aberrante Griseb. Nov 29 74
E. Mahlenbergii Griseb.
E. chionoides B. Torrey California Douglas



0
cm

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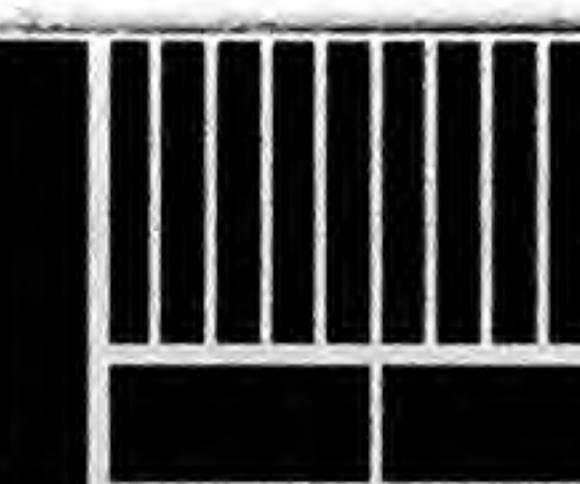
Date

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Or

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

3874



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cm

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GARDEN

"*C. chionanthus*"

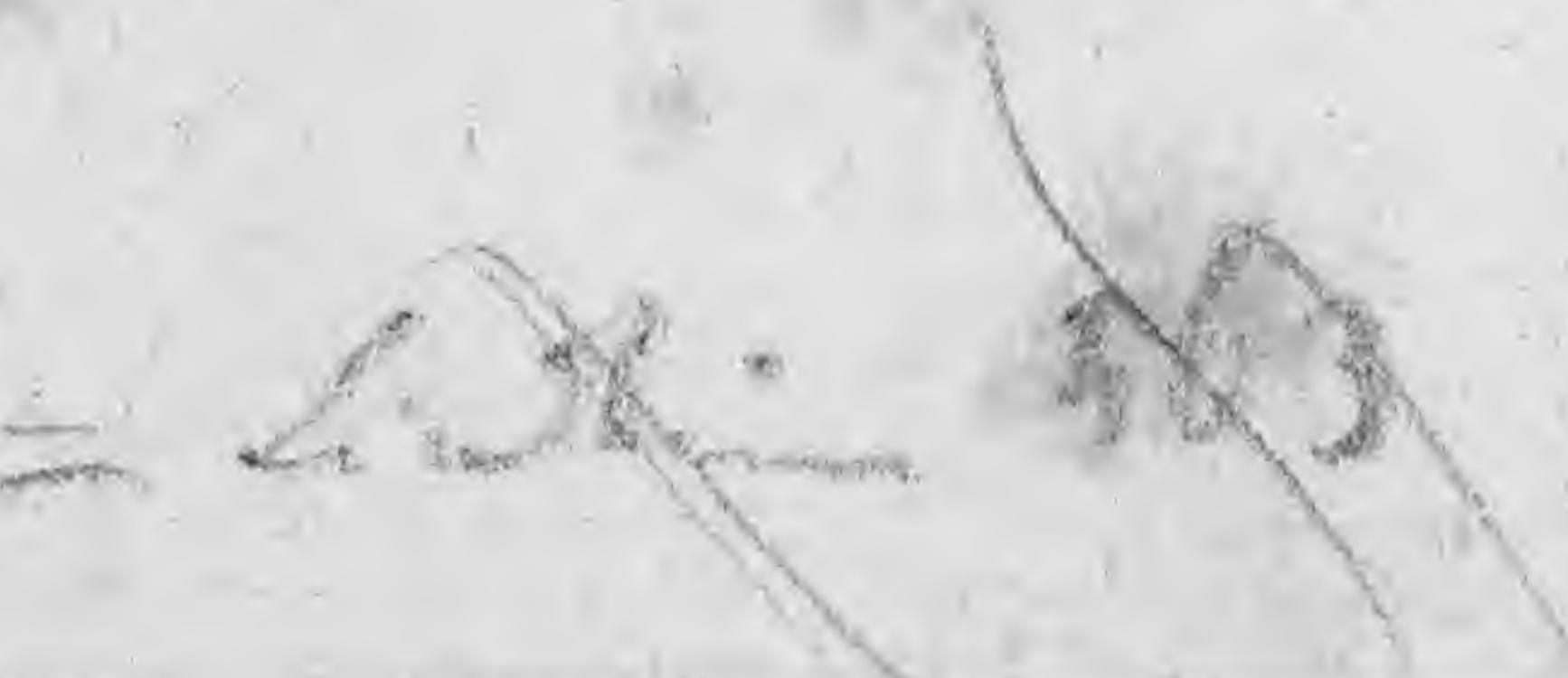
California Holly wood.

$\times 30$



seed $\times 60$

seeds in different stages
of development
is this correct?



0 1 2 3 4 5 6 7 8 9 10

cm

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3875

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
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GARDEN

①

4950 *Myrsinaceae* Torr

Nov 14 1876

x2



Bolander leg Yosemite Valley 1886



anther x10



0

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3

4

5

6

7

8

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10

cm

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GARDEN

HENRY EHREHARDT,
PHARMACEUTICAL CHEMIST,
No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

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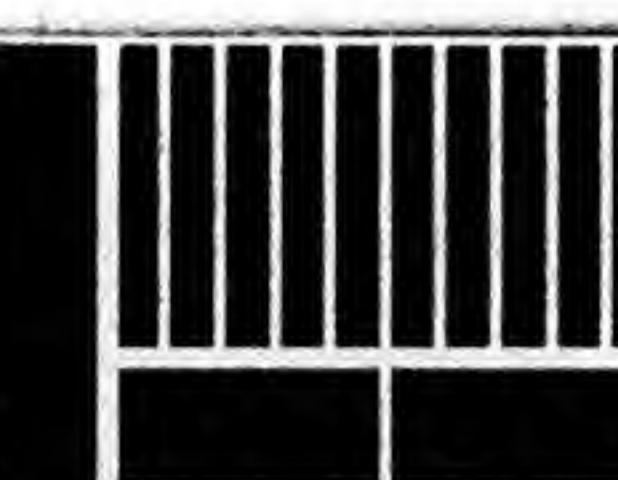
Date

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GEORGE ENGELMANN PAPERS

3876



0
cm

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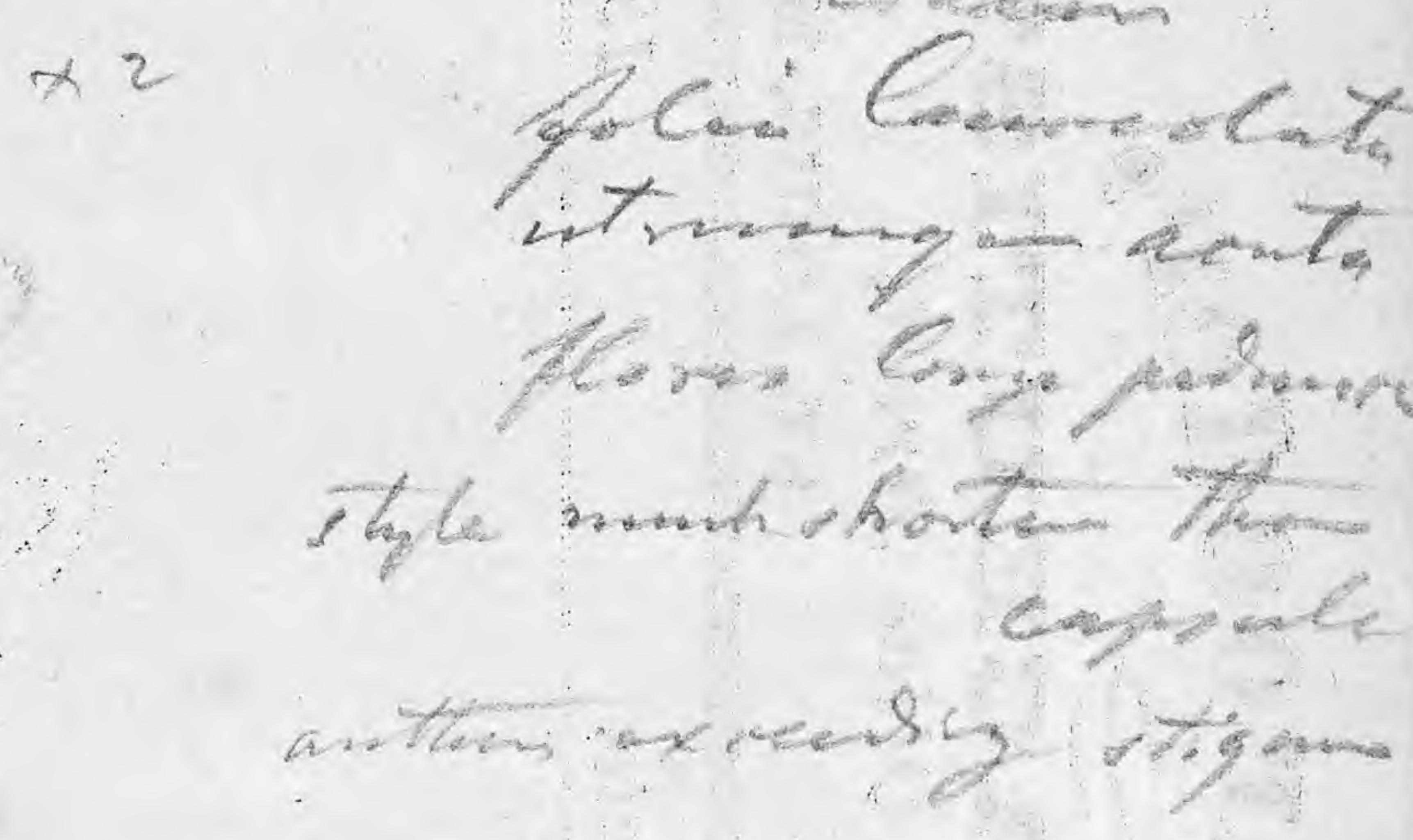
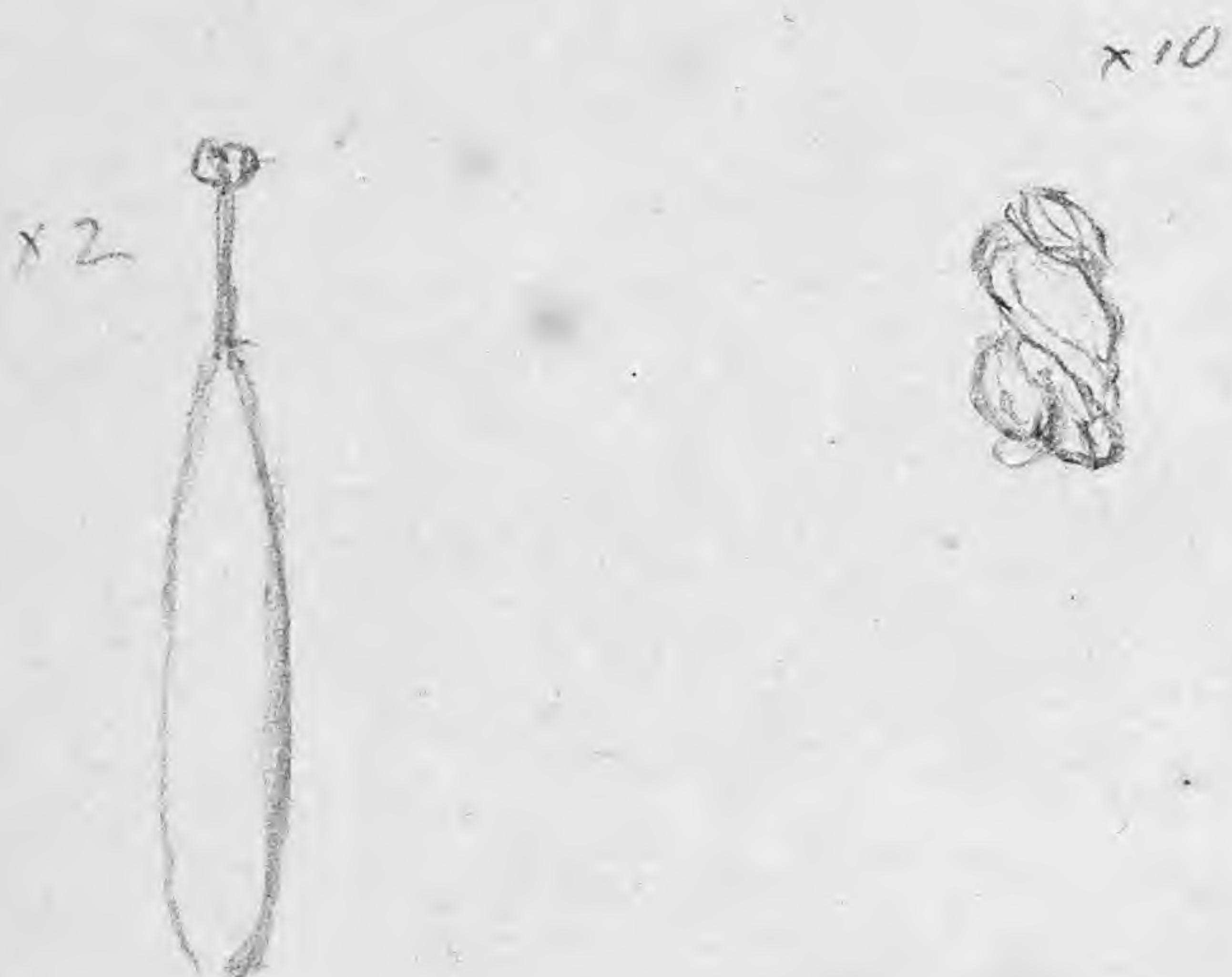
10

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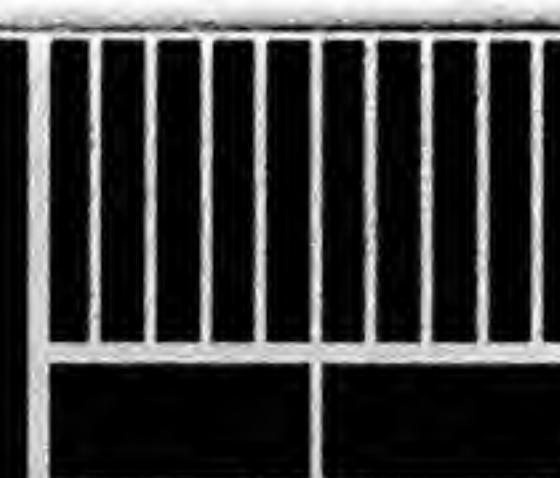
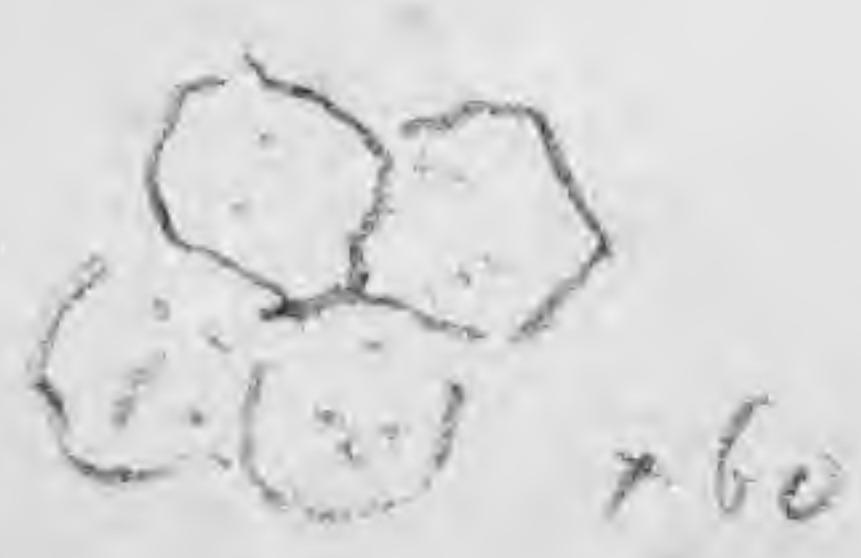
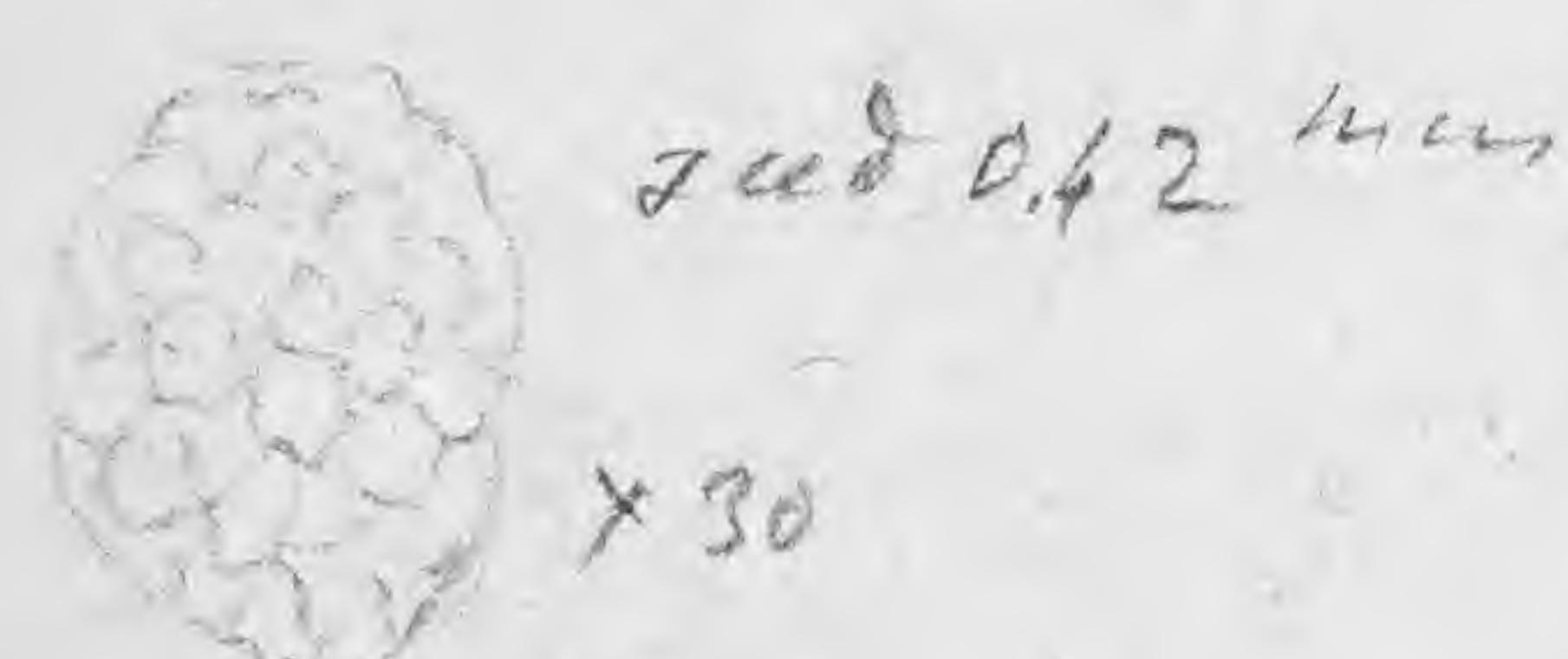


MISSOURI
BOTANICAL
GARDEN

Enthraea Nuttall type sp. 2 May 9 1875
Dallas, Oregon, Kellogg & Howell. Jun 13 1869



folia lanceolate
irregularly dentata
flora longe pedunculata
style much shorter than
capsule
anthers exceeding stigmas



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
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GARDEN

D. Schriener

PHARMACEUTIST,

No. 3005 Olive Street,

Near Garrison Avenue,

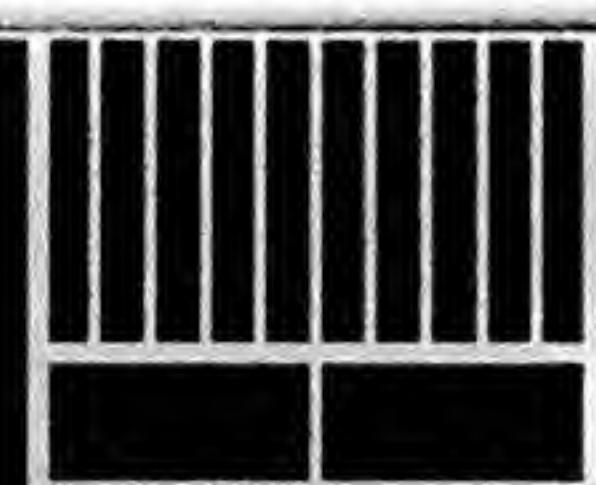
ST. LOUIS, MO.

No. Date, 1877

J. H.

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cm

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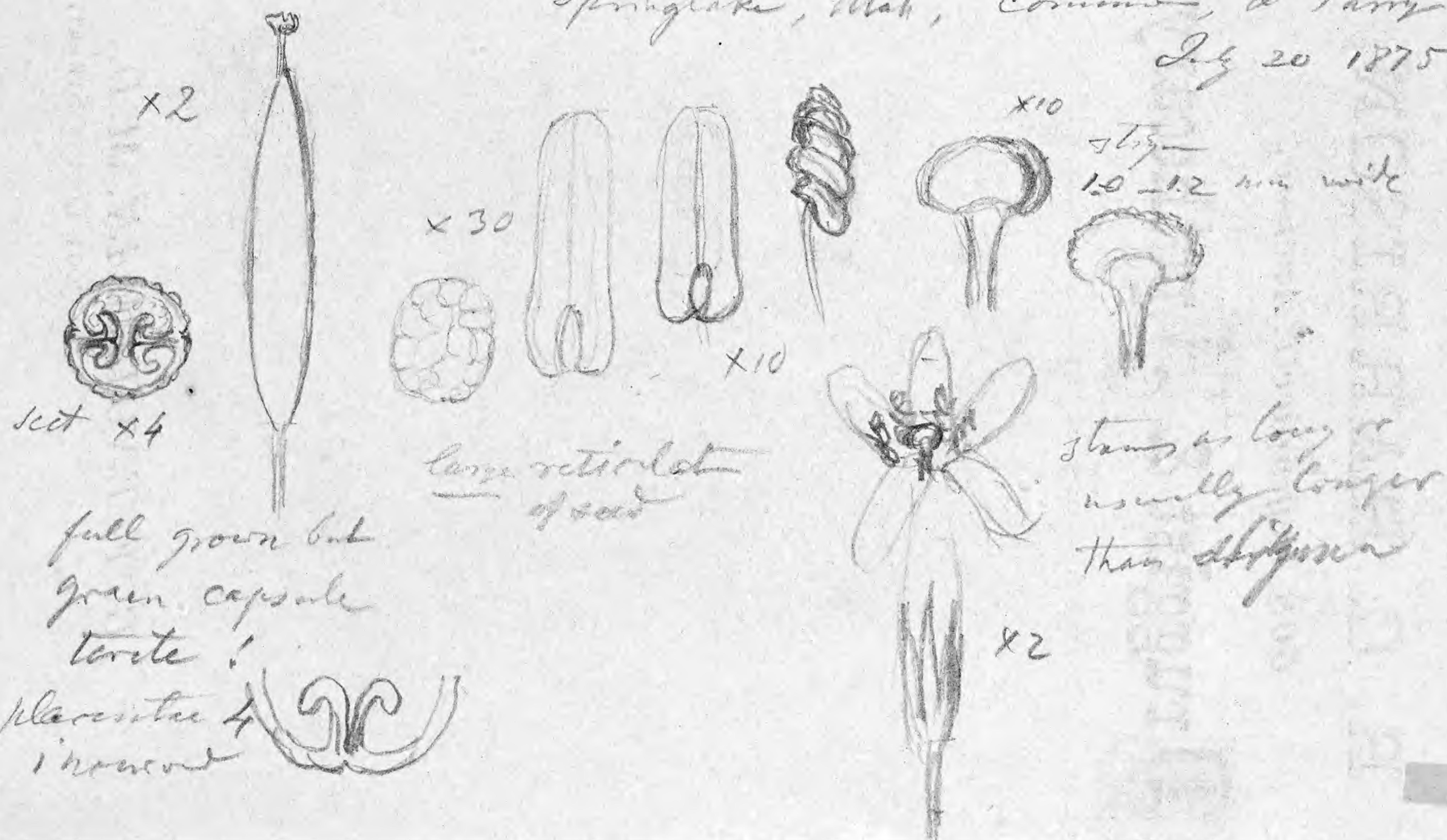
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Englishman Douglas' Gray

July 20 1975

Spokane, Wash., common at Ferry

July 20 1875



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R. C. HARRISON,

508 Leffingwell Avenue,

Druggist & Apothecary



0 1 2 3 4 5 6 7 8 9 10

cm

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3878

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

G. F. ENGELMANN, M.D.,

3003 LOCUST STREET.

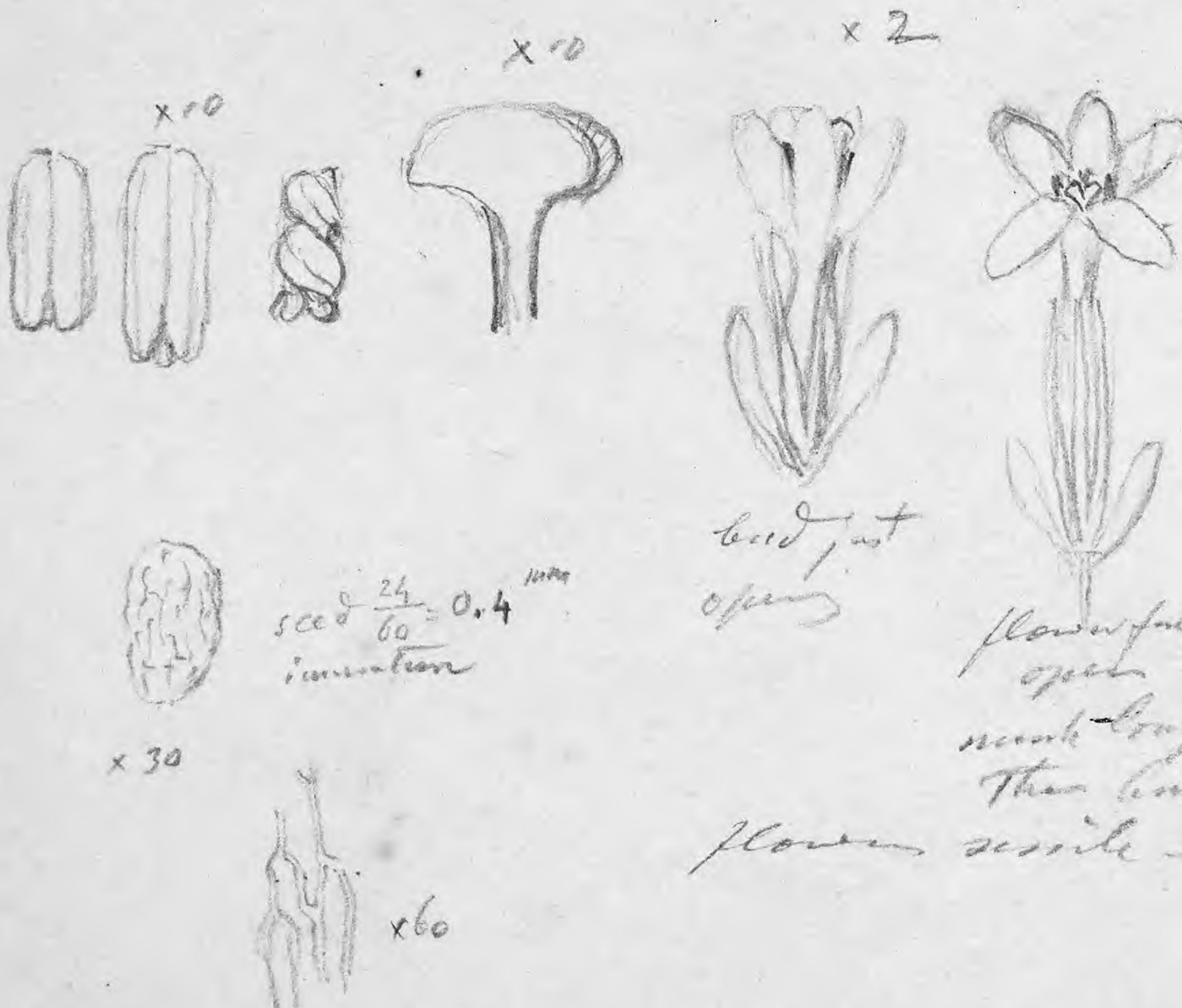


MISSOURI
BOTANICAL
GARDEN

836 Kellogg & Harford *Yucca brevifolia*

School Station. Calif. May 25. 1868

May 9 1875



Yucca brevifolia
arborescens



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

O. Schröder,

PHARMACEUTIST,

No. 3005 Olive Street,

Near Garrison Avenue,

ST. LOUIS, MO.

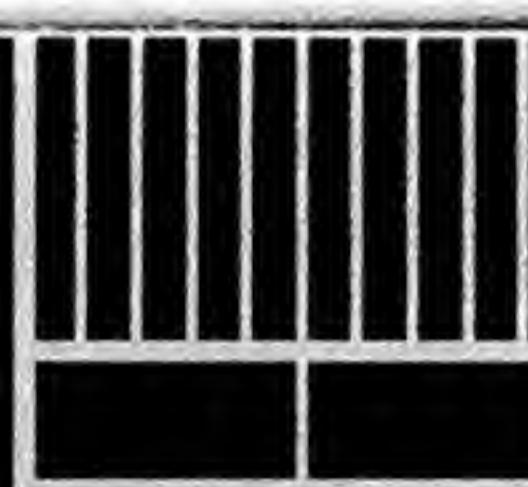
No.

Date,

187

Al

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0 1 2 3 4 5 6 7 8 9 10

cm

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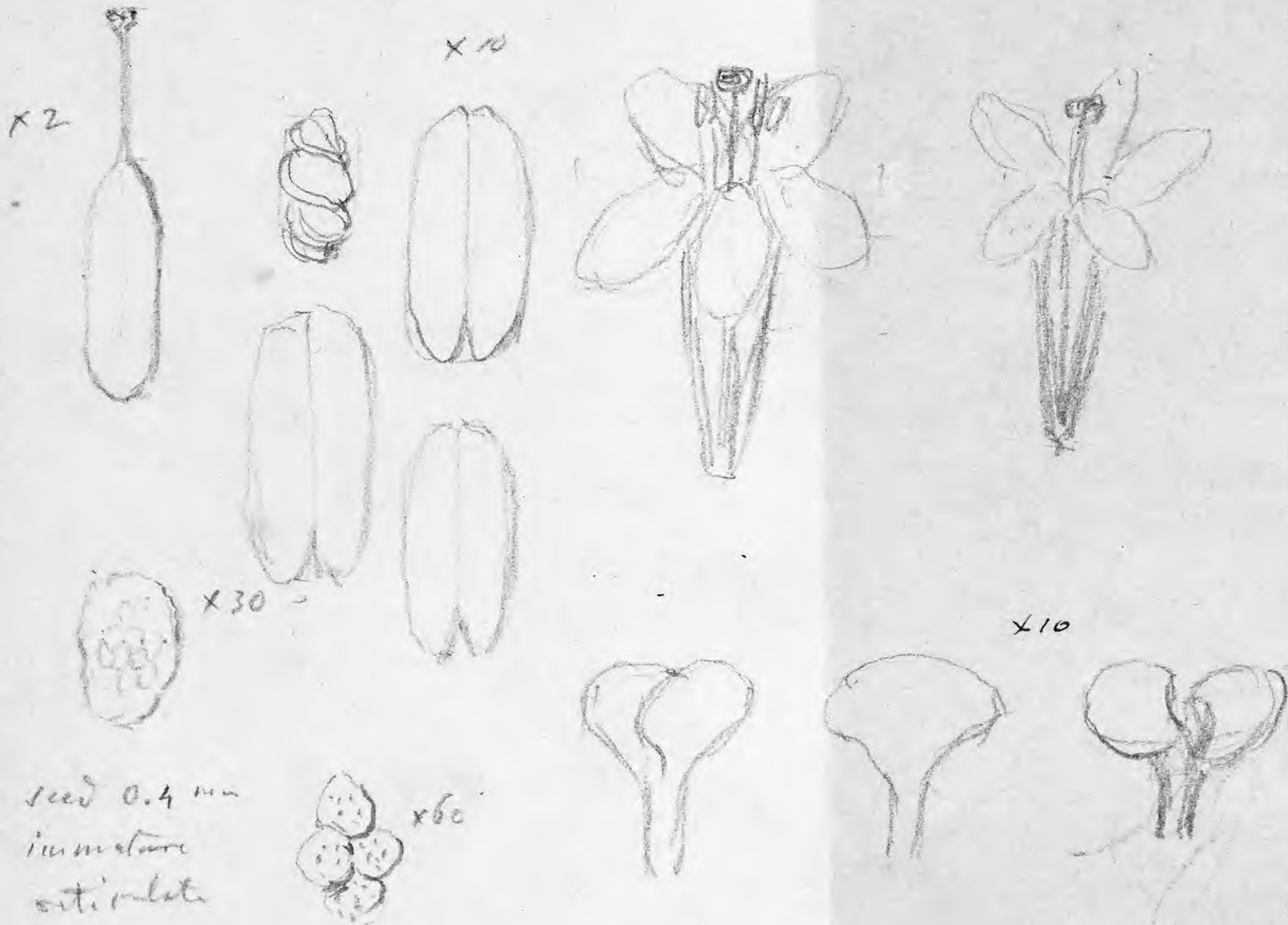


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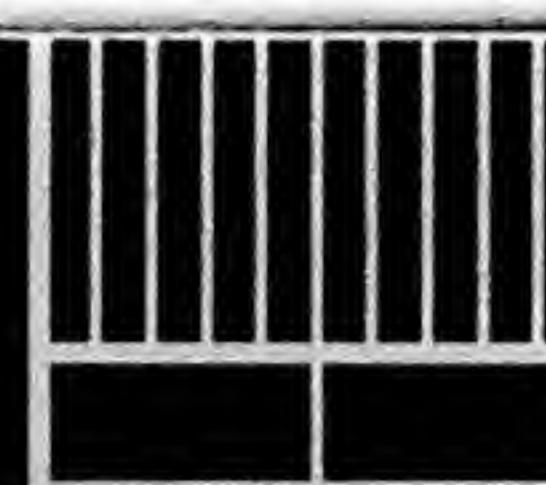
836. *Cryptomeria*

May 9 1875

School Station May 28 1878, Kellogg & Hartford



Sequoia oblonga
var. oblonga
utrinervia oblonga



0 1 2 3 4 5 6 7 8 9 10
cm

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GARDEN

O. Pechroeder,

PHARMACEUTIST,

No. 3005 Olive Street,

Near Garrison Avenue,

ST. LOUIS, MO.

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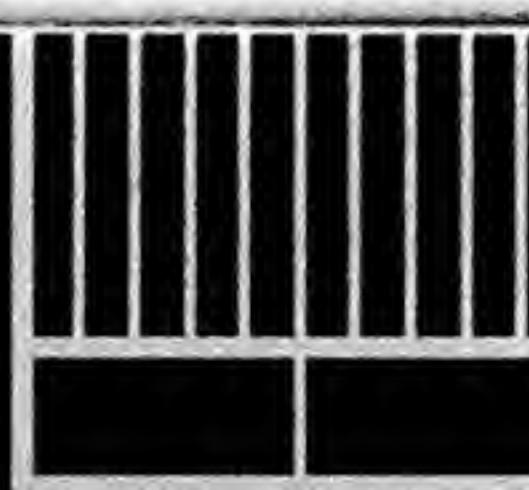
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MISSOURI BOTANICAL GARDEN
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3880



0 1 2 3 4 5 6 7 8 9 10

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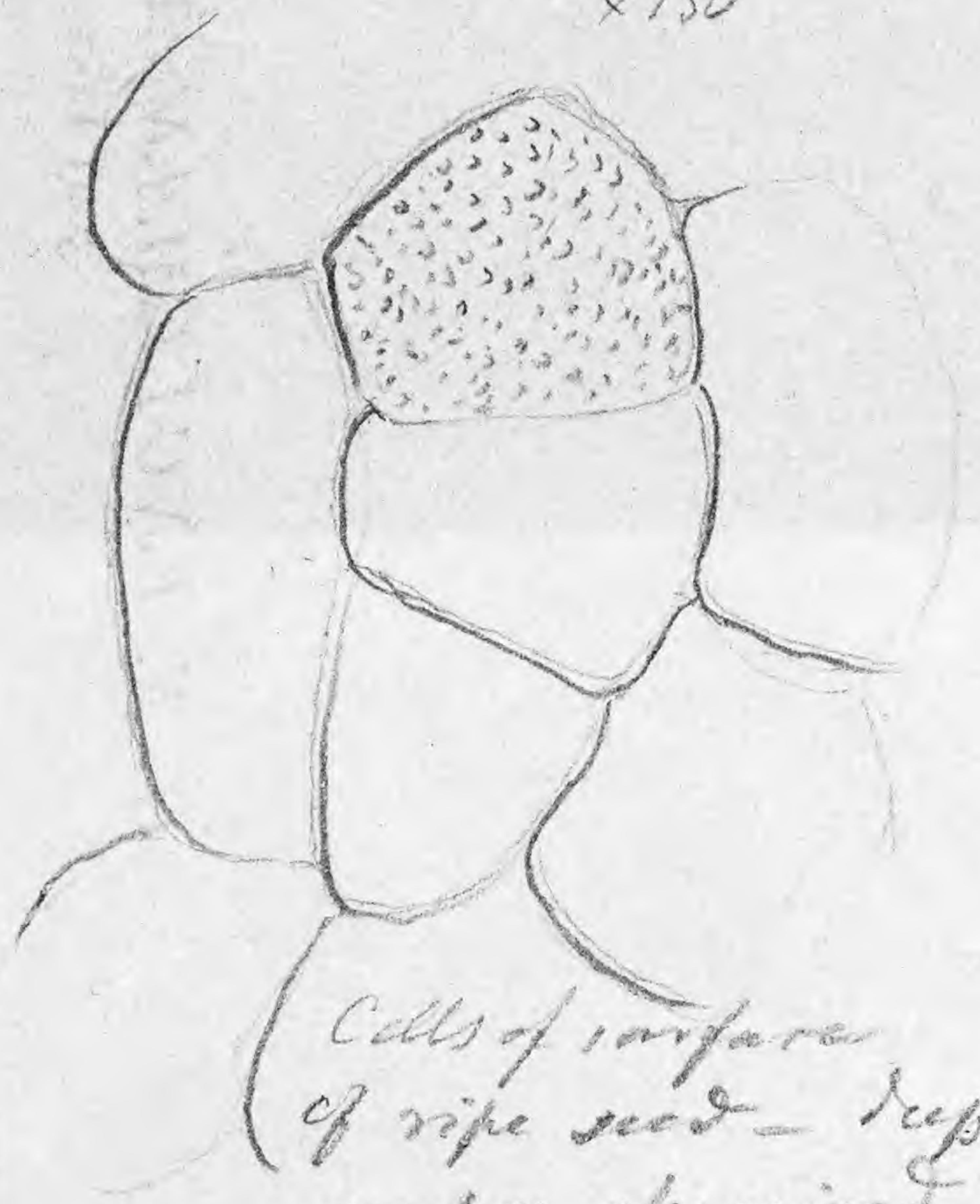
Erythronia Nuttallii

Aug 29 1875

Springlake, Utah. S. P. Gray Aug 1875

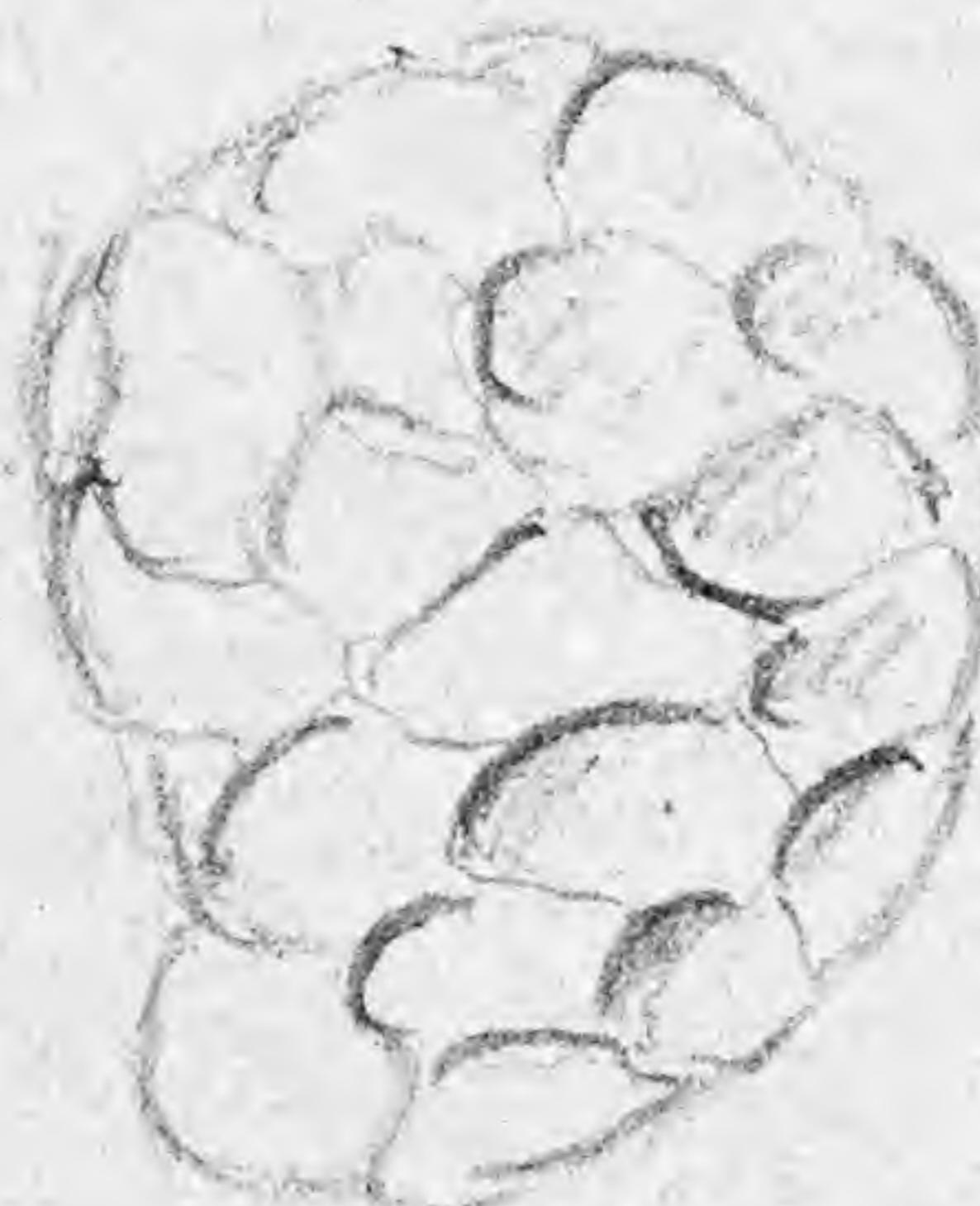
seed fully ripe

$\times 150$

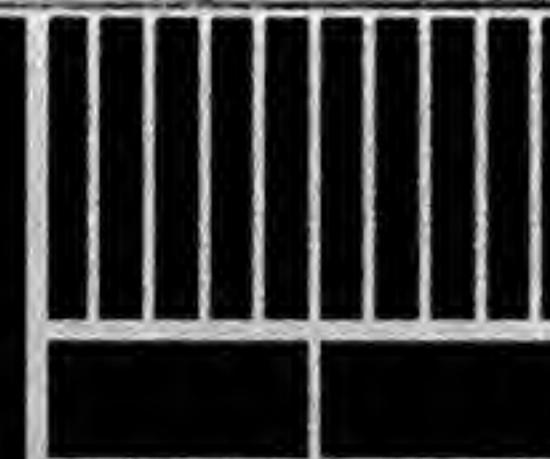


seed $\times 60$

seed 0.4 mm long



Cells of surface
of ripe seed - Deep
surface etched



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

3881

R. C. HARRISON,

508 Leffingwell Avenue,



Fruggist & Pothecary

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

G. F. ENGELMANN, M. D.,
3003 LOCUST STREET.



0 1 2 3 4 5 6 7 8 9 10
cm

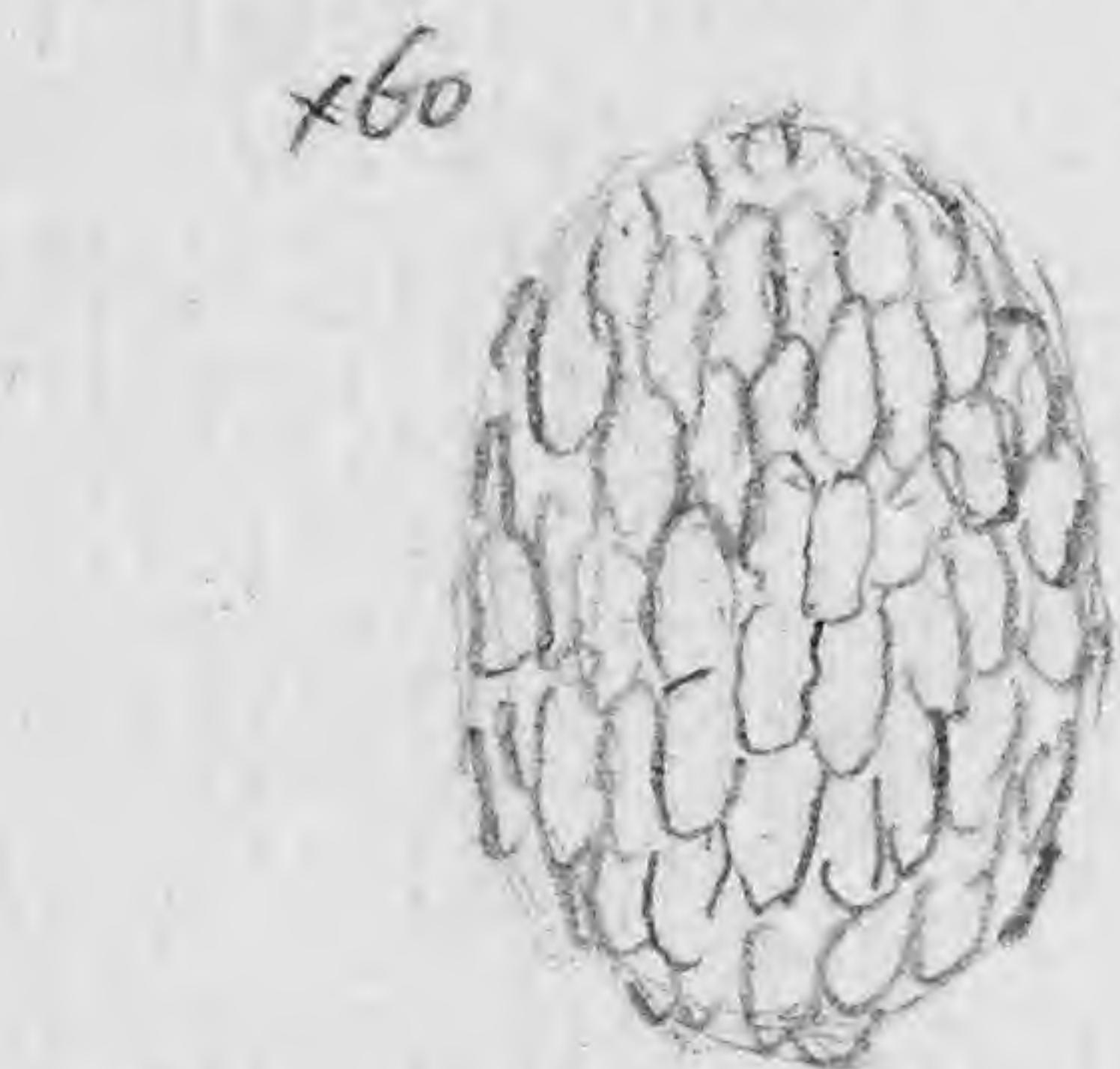
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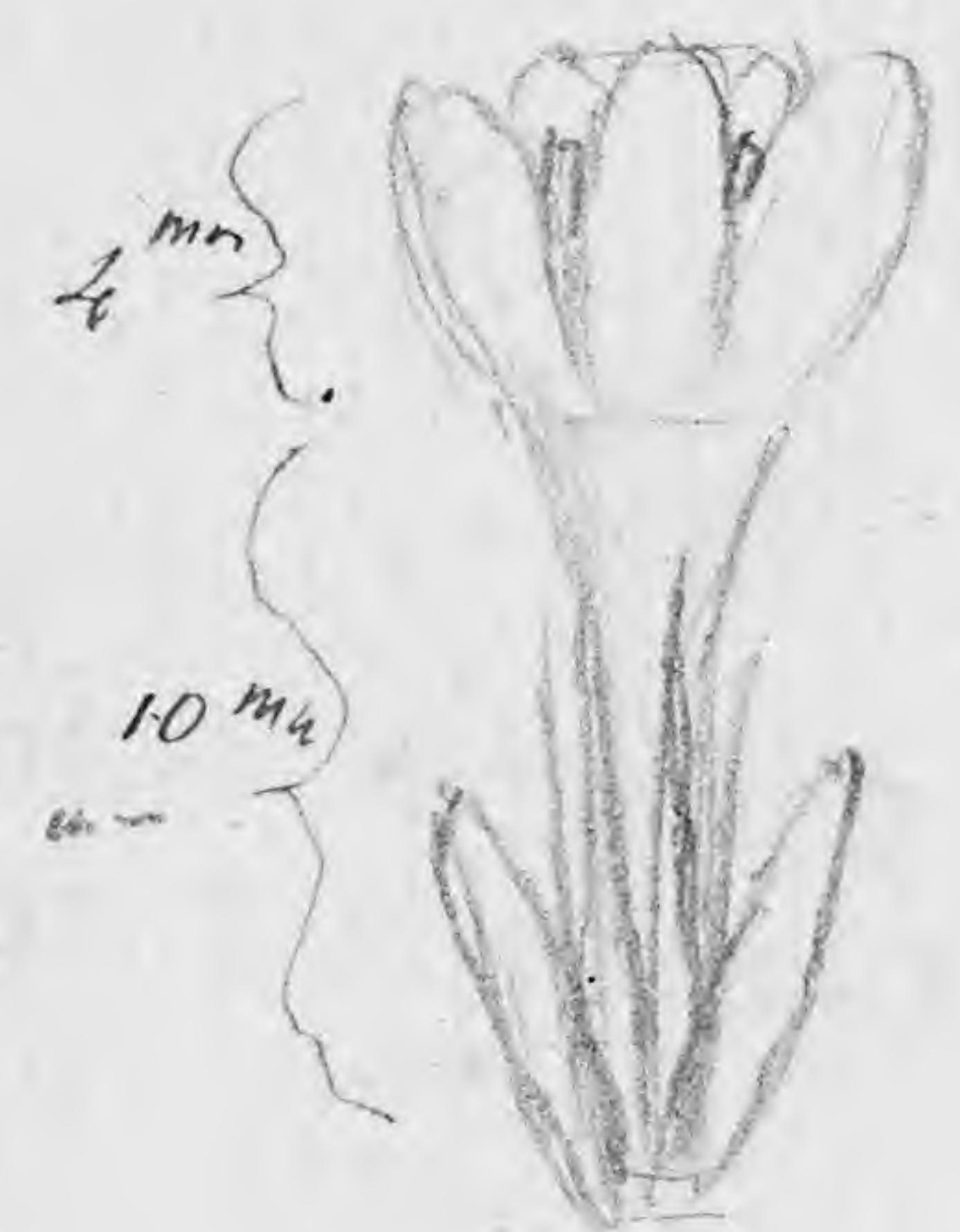
Erythrina floribunda Benth.
fl. ahololepis

Oct 31, 1875
in H. A. and Calif. vine lots
Collected this Oct
1875



x60

x30



4 mm

10 mm

6 mm

3882

APOTHECARY AND CHEMIST,
A. T. EX. TETTCH,

Marble Building, cor. Fourth and Olive Streets,

ST. LOUIS, MO.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0
cm

1 2 3 4 5 6 7 8 9 10

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Erythrina Nashiborgii

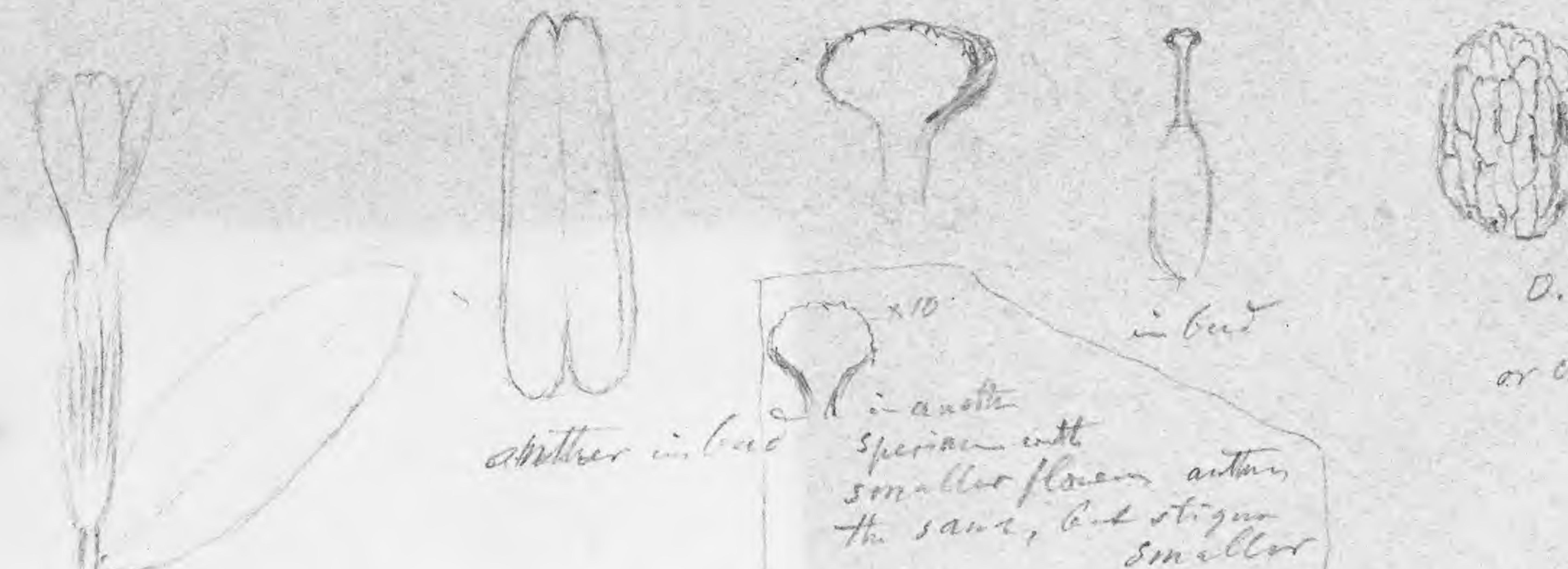
$\times 2$

$\times 10$

Cambridge Oct 19

76

$\times 30$



0 1 2 3 4 5 6 7 8 9 10
cm

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MISSOURI
BOTANICAL
GARDEN

3883

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
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GARDEN

153 Boyle, *Erythraea nudicaulis* Jan 10 1882

$\frac{1}{3}$ mm diam

$\frac{1}{5}$ in $\frac{1}{2}$ in

Arizona 1881



0.25 mm diam

sat x 60
mature
not quite ripe



out of
2 weeks
spore

Dry anther, x30

$\frac{28}{50} = 1 \frac{19}{50} \frac{2}{5}$ mm

1.8 mm long
immature
forked
x30



x2

loba 2 in
long or less
tube 3/2 in



ripe seed
x60

$\frac{18}{60} = 0.3$ mm
long

3 - 6 or 7 inches high
1 - 6 flowers



0 1 2 3 4 5 6 7 8 9 10
cm

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BOTANICAL
GARDEN

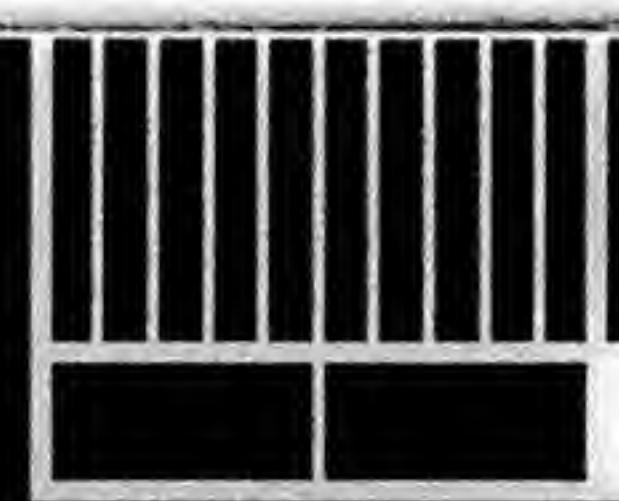
3884



APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10
cm

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MISSOURI
BOTANICAL
GARDEN

matin sed



seed x 60

reticulated

= 0.6 mm long

obliquely oval

Eug. floribunda

fl. scutellata

slig x10

Tab 1 1882

Eugine My
Bridge

x10



stamen

soaked

x2



x2



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

3883

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS.



0 1 2 3 4 5 6 7 8 9 10

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GARDEN

Erythrea. - H. B. vol 9 1855

1. 44. *Gyrandra chionoides* Gris 4 = *Erythrea chion.* Torn. & Schleid.
"semire rugulosa" see Torn's figure also.

1. 57 *Erythrea chionoides* Gris O mix. *Erythrea* "semire rugulosa"!

58 *E. Texana* Gris O

60 *E. trichantha* Gris Calif. see Bot Board 157 & H. Harms. Den & Hilt.
var. *angustifolia* Atkinson Bogen 1 [= *E. Degeneri*] tab. 9

"*E. muklenbergii* Gris N. York & Calif. [Agrost. = E. pulchella
Calif. = *E. chionoides*]

Bot Board p. 156 (1859)

156 *Eryth. chionoides* Torn. & P. *Muklenbergii* Gris. pl. Calif. tab. 42

157 *Eryth. Degeneri* Torn. Gr. see Bot Mag. p. 278 t. 12 4
"E. Texana" Gris no descr. only figure (1854).

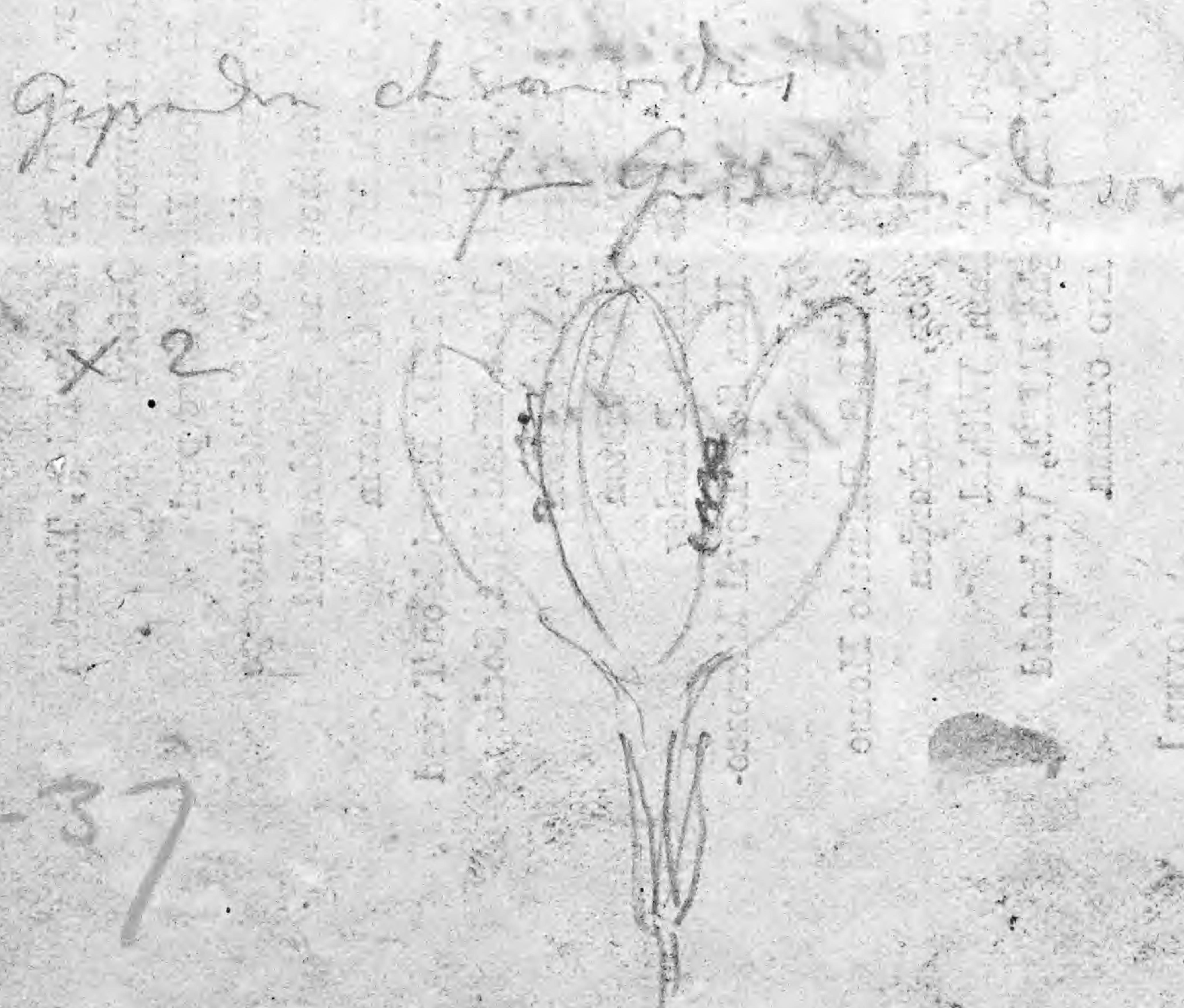
Eryth. Nuttallii Watson = Bot King's Coll p. 276 + 29
seed figure 11 mm long would be 8 times enlarged as long I have
seen would be twice as large

E. floribunda Benth. pl. Harv. 322 = *trichantha* fide Bot Bd 157
(*E. subsessilis* Benth.)

Gyrandra speciosa Benth. Bot Coll p. 125 t. 45 (see Bot Bd
157)

Eryth. trichantha var. *Den & Hilt.* H. Harms.

Par. A. Rep. V. 1856 p 11
tab 9



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volume. This work, based upon *Bryologia Britannica*, with such alterations and additions as have been made to the Author, is intended to be issued in such a form, and at such a price, as to render it safe from any great pecuniary loss, the subscription list will be closed, and the price increased.

1. *Lygathes*

2. *Communications*

3. *smaller and*

4. *larger to see*

5. *list of*

6. *subscribers*

7. *already received*

8. *may be mentioned*

9. *in the following:*

10. *notes*

11. *3886*

1. *Lygathes*
2. *Bot.*
3. *green*
4. *grey*
5. *grey*
6. *grey*
7. *with 4*
8. *g. griseo*
9. *with H.E.*
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Spur characters of *Erythronium*
 perennial — annual
angose — reticulated seeds
alt. wint.
width 270
length 463 - Extern
 scissile (or nearly so) — long peduncled flowers
 size of anthers

seeds of no. 9.	$\frac{19}{30}$ mm	$0.6 - 0.7$ mm.	size of seeds
[Wilson's Nod. from	$\frac{11}{8}$	1.4	
no. 2.	$\frac{17-18}{30}$	0.6	
8. 12.	$\frac{12}{30}$	0.4	
9. 11	$\frac{10}{30}$	0.33	
73	$\frac{9}{30}$	0.3	
5	$\frac{7}{30}$	0.23	

Anthers of 1.2. 3
 . . . 6.7
 4.5-9
 8. Texas
 10. 11. 12. 13

4 mm length of anthers
 2.8
 2.1-2.4 } 2-3 mm
 1.9
 1.0-1.3 1-1/2 mm



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IN COURSE OF PREPARATION,

A SYNOPTIC OF THE BRITISH MOSES,

BY CHAS. P. HOBKIRK,

Author of "HUDDERSFIELD, ITS HISTORY AND NATURAL HISTORY," "NOTES SUR LE GENRE CAPSELLA," &c.,

IN ONE VOLUME, SMALL OCTAVO.

Containing ample descriptions of all the known British species, corrected and revised on Wilson's *Bryologia Britannica*
up to the present date.

PRICE TO SUBSCRIBERS, FIVE SHILLINGS.

The MSS. is ready, and the publication will be commenced as soon as the names of a sufficient number of
subscribers have been obtained to warrant the undertaking.

It is now 18 years since Mr. W. Wilson published his *Bryologia Britannica*—a Book which must necessarily
remain the groundwork of all works on the British Mosses for many years to come. During that period upwards of
100 species have been added to the list of British Mosses, the whole of which will be incorporated in the forthcoming
volume. This work, based upon *Bryologia Britannica*, with such alterations and additions as have
been made by the Author, is intended to be issued in such a form, and at such a price, as to render it
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